

REVISIONS

## **INPUT VOLTAGE: INPUT FREQUENCY:** HIGH VOLT LIMIT 4.125 **VOLTAGE TRANSIENTS:** PRESET VOLTAGE LIMITS: (SENSE BAND)

LOW VOLT LIMIT

When the input voltage is within the specified limits and the phase rotation is

until the voltage returns to within the high-low limits. The output relay will not

disconnected. When the relay is energized, the loss of one or more phases

Solid state sensor, with electromechanical output relay, enclosed in a sealed

ABC, the output relay will energize after the specified pick up time delay.

If the high or low voltage limits are exceeded for a time greater than the specified drop out time delay, the output relay will de-energize and remain so

will cause the output relay to de-energize immediately. (.070 Sec. Typ.)

energize if the phase rotation is other than A-B-C, or if any phase is

**VOLTAGE LIMITS ADJ RANGE:** 

HYSTERESIS: (PU-DO diff.)

PICK UP DELAY: DROP OUT DELAY:

**LOSS OF PHASE DELAY:** 

PHASE REVERSAL DELAY: **OPERATING POWER:** 

**DIELECTRIC STRENGTH:** 

**INSULATION RESISTANCE:** 

PHASE ROTATION, NORMAL:

TYPE OF SENSING: **RELAY CONTACTS:** 

**CONTACTS RATING:** 

10 A Resistive at 28V DC

6 A Inductive at 28V DC 5 A Resistive at 115V RMS 400 Hz.

2.5 A Inductive at 115V RMS 400 Hz. 3.0 A Resistive at 115V RMS 60 Hz. 2.0 A Inductive at 115V RMS 60 Hz.

**OPERATING TEMPERATURE:** 

.075 Ohms, max. -55°C to +85°C.

-65°C to + 125° C..

**VIBRATION:** 

MIL-STD-167

MIL-S-901

MIL-STD-810 C (Sea Level to 70,000 Ft.)

WIRING DIAGRAM

TOP OF HOUSING

(10)

14

(6)

(11)

12

4

2.87

(0000)

.75

4.50

3.65

2.50

.172 DIA.

4 MTG. HOLES

## **TABLE**

steel housing, plated per MIL-T-10727, Type II, fused.

3.500

WIRING DIAGRAM

TYP.

**OPERATION:** 

**CONSTRUCTION:** 

FREQUENCY	DYNALEC P/N	WILMAR MODEL
400Hz	14102-084-01	21-890
60Hz	14102-085-01	21-889

- 1. The high and low voltage limits are screwdriver adjustable.
- 2. Remove sealing screws to gain access to the Low and High internal adjustment potentiometers.
- 3. Replace screw and "O" ring after the adjustment is performed.

UNLESS OTHERWISE SPECIFIED	CONTRACT NO.		WILMAR  ELECTRONICS, INC.  2430 AMSLER STREET  TORRANCE, CALIFORNIA 90508	
TOLERANCESON	DRAWN C.M. 12. 3.9	2430 AN		
FRACTIONS DECIMALS ANGLES ±1/32 ±.010 ±1/20	CHECKEDE, R.H 12-7-	6 TITLE	DETAV	POWER MONITOR
MATERIAL	PROJECT APPROVAL		MODELS 21-889 & 21-890	
	DESIGN ACTIVITY APPROVAL	SIZE	25248	DWG.NO. 21-889
		SCALE	WEIGHT	SHEET

**SPECIFICATIONS** 115V RMS (NOM) 3 Phase, 3 W. delta in accordance with DOD-STD-1399 (Section 300) Type II power. 60 and 400 Hz. (See table). Per MIL-STD-704D, Fig 5 130V RMS ± 1% = High voltage limit 92V RMS ± 1% = Low voltage limit ± 6V approximately. 2 % max. (.5V Typical) 2 Sec. ± 10% 2 Sec. ± 10% .070 Sec. .070 Sec. 6 VA max. 1000V RMS 60 Hz. (For 1 minute applied between all terminals tied together and the case.) 100 Megaohms at 500VDC (between all terminals tied together and the case.) A-B-C Peak, average of the three phases. DPDT

**CONTACTS INITIAL RESISTANCE:** 

**STORAGE TEMPERATURE:** 

SHOCK: **HUMIDITY** 

<u>ALTITUDE</u>

MIL-STD-810 C

1618068-0 618068-1

2-1 2-1

21-889 n. 21-889=2 21-890=2

AWING

**CUSTOMER D**